

ABSTRACT

An amplifier circuit capable of suppressing the circuit scale thereof and obtaining an output signal with 5 high power efficiency and little distortion is disclosed. In this circuit, constant-envelope signal generating section (101) generates a plurality of constant-envelope signals from an input signal. Pilot signal generating section (102) generates a plurality of pilot signals 10 associated with the generated plurality of constant envelope signals, the plurality of pilot signals having predetermined amplitudes, predetermined phases and predetermined frequencies, respectively, the phases and frequencies being different from each other. First 15 addition section (103) and second addition section (104) add the plurality of pilot signals to the generated plurality of constant-envelope signals. First amplifier (111) and second amplifier (112) amplify the plurality of constant-envelope signals to which the plurality of 20 pilot signals are added. Vector adjustment section (105) corrects the amplitude or phase of one of the generated plurality of constant-envelope signals using a signal component included in the amplified plurality of constant-envelope signals and corresponding to the 25 plurality of pilot signals.